

ClaimsWhat is claimed is:

- 1 1. In a telecommunications system providing  
2 communication channels for the transmission of packets of  
3 audio data between system stations, a system for  
4 minimizing the effect of required generated background  
5 noise on said transmission channel utilization  
6 comprising:  
7       means for forming a transmission stream of  
8 sequential digital audio data packets;  
9       means for associating with each audio packet, a data  
10 code representation of the payload data packet enabling  
11 the generation of said background noise;  
12       means at said system receiving station, responsive  
13 to each of said data representations for forming the  
14 represented payload data packet enabling said generation  
15 of background noise;  
16       means at said receiving station for interspersing  
17 said formed payload packets enabling background noise  
18 generation between said associated audio data packets;  
19 and  
20       background noise generating means, at said receiving  
21 station, responsive to said enabling payload packets for  
22 generating said background noise between said audio data  
23 packets.
- 1 2. The telecommunication system of claim 1 wherein said  
2 audio data packets are voice data packets.
- 1 3. The telecommunication system of claim 2 wherein said  
2 generated background noise is white noise.

1 4. The telecommunication system of claim 3 wherein said  
2 payload packet enabling said generation of background  
3 noise is an Additive Gaussian White Noise (AGWN) packet.

1 5. The telecommunication system of claim 4 wherein said  
2 data code representation includes data representing the  
3 duration and amplitude of said AGWN packet.

1 6. The telecommunication system of claim 5 wherein said  
2 associated data code representations of the payload data  
3 packet enabling the generation of said background noise  
4 are included in each voice data packet.

1 7. In a telecommunications system providing  
2 communication channels for the transmission of packets of  
3 audio data between system stations, a method for  
4 minimizing the effect of required generated background  
5 noise on said transmission channel utilization  
6 comprising:  
7 forming a transmission stream of sequential digital  
8 audio data packets;  
9 associating with each audio packet, a data code  
10 representation of the payload data packet enabling the  
11 generation of said background noise;  
12 forming the represented payload data packet enabling  
13 said generation of background noise responsive to the  
14 receipt of each of said data representations at a system  
15 receiving station;  
16 interspersing said formed payload packets enabling  
17 background noise generation between said associated audio  
18 data packets at said receiving station; and  
19 generating said background noise between said audio  
20 data packets, at said receiving station, responsive to  
21 said enabling payload packets.

1 8. The telecommunication method of claim 7 wherein said  
2 audio data packets are voice data packets.

1 9. The telecommunication method of claim 8 wherein said  
2 generated background noise is white noise.

1 10. The telecommunication method of claim 9 wherein said  
2 payload packet enabling said generation of background  
3 noise is an AGWN packet.

1 11. The telecommunication method of claim 10 wherein said  
2 data code representation includes data representing the  
3 duration and amplitude of said AGWN packet.

1 12. The telecommunication method of claim 11 wherein said  
2 associated data code representations of the payload data  
3 packet enabling the generation of said background noise  
4 are included in each voice data packet.

1 13. A computer program having code recorded on a  
2 computer readable medium for minimizing the effect of  
3 required generated background noise on said transmission  
4 channel utilization in a telecommunications system  
5 providing communication channels for the transmission of  
6 packets of audio data between system stations comprising:  
7 means for forming a transmission stream of  
8 sequential digital audio data packets;  
9 means for associating with each audio packet, a data  
10 code representation of the payload data packet enabling  
11 the generation of said background noise;  
12 means at said system receiving station, responsive  
13 to each of said data representations for forming the  
14 represented payload data packet enabling said generation  
15 of background noise;  
16 means at said receiving station for interspersing  
17 said formed payload packets enabling background noise  
18 generation between said associated audio data packets;  
19 and  
20 background noise generating means, at said receiving  
21 station, responsive to said enabling payload packets for  
22 generating said background noise between said audio data  
23 packets.

1 14. The computer program of claim 13 wherein said audio  
2 data packets are voice data packets.

1 15. The computer program of claim 14 wherein said  
2 generated background noise is white noise.

1 16. The computer program of claim 15 wherein said payload  
2 packet enabling said generation of background noise is an  
3 AGWN packet.

1 17. The computer program of claim 16 wherein said  
2 data code representation includes data representing the  
3 duration and amplitude of said AGWN packet.

1 18. The computer program of claim 17 wherein said  
2 associated data code representations of the payload data  
3 packet enabling the generation of said background noise  
4 are included in each voice data packet.

1 19. The telecommunications system of claim 4 wherein:  
2 said system is an Internet Protocol (IP)  
3 telecommunications system; and  
4 further including means for interposing Internet  
5 page packets into said transmitted stream whereby said  
6 Internet page packets are sequenced in spaces between  
7 voice packets conventionally occupied by the AGWN  
8 packets.

1 20. The telecommunications method of claim 10 wherein:  
2 said system is an IP telecommunications system; and  
3 further including the step of interposing Internet  
4 page packets into said transmitted stream whereby said  
5 Internet page packets are sequenced in spaces between  
6 voice packets conventionally occupied by the AGWN  
7 packets.

1 21. The computer program of claim 16 wherein:  
2 said system is an IP telecommunications system; and  
3 further including means for interposing Internet  
4 page packets into said transmitted stream whereby said  
5 Internet page packets are sequenced in spaces between  
6 voice packets conventionally occupied by the AGWN  
7 packets.